

United States Patent and Trademark Office

CNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vitginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/015,086	12/11/2001	Jonathan J. Bernstein	112222.128	9491
23483	7590 12/02/2004		EXAMINER	
WILMER CUTLER PICKERING HALE AND DORR LLP 60 STATE STREET BOSTON, MA 02109			ALANKO, ANITA KAREN	
			ART UNIT	PAPER NUMBER
			1765	

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/015,086	BERNSTEIN ET AL.
Office Action Summary	Examiner	Art Unit
	Anita K Alanko	1765
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re eply within the statutory minimum of thirty d will apply and will expire SIX (6) MONT	ply be timely filed (30) days will be considered timely. 'HS from the mailing date of this communication
Status		
1) Responsive to communication(s) filed on 8/1	6/04 amdt	
a 157	is action is non-final.	
3) Since this application is in condition for allow	ance except for formal matter	rs. prosecution as to the morito in
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11. 453 O G 213
Disposition of Claims		
4) ⊠ Claim(s) 1 and 3-36 is/are pending in the app 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) 22-24 and 30 is/are allowed. 6) ⊠ Claim(s) 1,3-11,25-27,29 and 31-36 is/are rej 7) ⊠ Claim(s) 12-21 and 28 is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin	or	
10) The drawing(s) filed on is/are: a) acc		the Eveniner
Applicant may not request that any objection to the	e drawing(s) be held in abevance	See 37 CER 1 85(a)
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s)	is objected to. See 37 CFR 1 121(d)
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached (Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priori	ts have been received. ts have been received in App crity documents have been re	lication No.
application from the International Burear * See the attached detailed Office action for a list	u (PCT Rule 17.2(a)).	
ttachment(s)		
Notice of References Cited (PTO-892)	4) 🔲 Interview Sum	mary (PTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/M	mal Patent Application (PTO-152)
Patent and Trademark Office OL-326 (Rev. 1-04)	tion Summary	Part of Panor No (Mail Date 4404

Application/Control Number: 10/015,086

Art Unit: 1765

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-11, 25-27, 29 and 31 are rejected under 35 U.S.C. 102(a) as being anticipated by Golecki et al (US 2001/0049193 A1).

Golecki discloses a microelectromechanical device (and a method for making it) comprising:

at least one flexible member formed from an alloy comprising: a noble metal and alloying elements comprising gold and nickel (paragraph [0043]).

Since the device is formed from the same materials as the instant invention, the same properties of performance characteristic, electrical conductivity, solid solubility and amount of precipitates are expected.

Claims 1,3-11, 25-27, 29, 31-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Golecki et al (US 2001/0049193 A1).

The discussion of Golecki from above is repeated here.

As to claim 32, Golecki does not explicitly disclose to deposit a sacrificial layer.

However, sacrificial layers are conventionally used in MEMS processing. It would have been obvious to one with ordinary skill in the art to deposit a sacrificial layer in the method of Golecki because it is a conventional technique in MEMS processing.

As to claims 33-36, Golecki discloses to use sputtering (paragraph [0054]) and to deposit a chromium adhesion layer (Fig.7).

Allowable Subject Matter

Claims 12-21, 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 22-24 and 30 are allowed.

Response to Amendment

The rejections over Sun, Hill, Pearson, Khandros and Sayama are withdrawn.

Applicant's remarks are persuasive in that Sun, Hill, Pearson, Khandros and Sayama do not suggest the particular combination of alloy cited in claim 1, with the cited equilibrium solid solubility and performance characteristic. Further as to claims 22 and 23, Sayama and Sun do not suggest the particular alloy cited in combination with the cited performance characteristic.

Response to Arguments

Application/Control Number: 10/015,086

Art Unit: 1765

Applicant's arguments filed August 16, 2004 have been fully considered but they are not persuasive. As to the Golecki rejection, applicant argues that Golecki does not teach or suggest a freestanding flexible member made from the alloy. Examiner disagrees since the figures clearly show freestanding structures ("movable structures"). To the extent that applicant is arguing that the freestanding structure of Golecki is made from materials other than the alloy, this argument is not commensurate in scope with the claim language. The claim has open "comprising" language. Therefore, the freestanding structure can be made from not only the alloy, but from other materials as well. The rejection would be overcome by citing that the freestanding structure consists of or consists essentially of the alloy.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anita K Alanko whose telephone number is 571-272-1458. The examiner can normally be reached on Mon-Fri until 2:30 pm (Wed until 11:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anita K Alanko
Primary Examiner
Art Unit 1765